KAZAKOV, S.P.

Motion of a hydrometric float. Trudy Mor.gidrofiz.inst. AN URSR 28:67-71 '63. (MIRA 17:3)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

AFWI/AEDC(a)/ESD(t) Pd-1 EMP(m)/EWT(1)/EWA(1) 3/0198/64/010/006/0649/0653 ACCESSION NR: AP5000110 AUTHOR: Kazakov, S. P. (Moscow) TITLE: Experimental determination of the apparent mass and drag coefficients of bodies being immersed in water 50URCE: Pry*kladna mekhanika, v. 10, no. 6, 1964, 649-653 TOPIC TAGS: hypervelocity particle, drag coefficient, virtual mass coefficient ABSTRACT: The accuracy of determining the velocities and times of immersing a body (sphere) into water depends, to a significant degree, on the assumed values for the coefficients of apparent mass and the drag coefficients. Fracise values for the apparent mass and drag coefficients can be determined by conducting special experiments, particularly for bodies traveling at hypercritical velocities and also in periods of unsteady motion. In the present work, methods of experimentally determining the apparent mass am drag coefficients of bodies immersed vertically in water are compared, with end without consideration of the intrincie weight of the body. For precise experimental determination of the apparent mass and drag opefficients it is necessary to consider the intrivsic weight of the body; other-

ACCESSION NR: AP5000110

wise, the drag coefficients for two spheres having different mass donsities will be different, which is contrary to the experimental conditions. Orig. art. has:

13 equations, 2 diagrams, and 1 table.

ASSOCIATION: More'kysy gidrofisyschnysy instystut AN URSR (Naval Hydrophysics Institute, AN URISER)

SUBMITTED: 30Jul63

ENCL: 00

SUB CCDE: HE NO REF SOV: CO3 OTHER: 002

USPHNSKIY, Ye.N.; KAZAKOV, S.P.

Use of a correlator in experimental studies of wind waves using continuous-strip photographic registration. Okeanologiia 4 no.5: 900-904 164 (MIRA 18:1)

1. Morskoy gidrofizicheskiy institut AN UkrSSR.

KAZAKOV, S.P., inzh.

Hydraulic calculation of siphons. Vod. i san. tekh. no.7:11.14

(MIRA 18:8)

J1 *55.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

KON'KOV, Arkadiy Sergeyevich; RAYTSES, Veniamin Borisovich; GARYAYEV, P.I., inzh., retsenzent; KAZAKOV, S.S., inzh., retsenzent; TYAGUNOV, V.A., kand.tekhn.nauk, red.; DUGINA, N.A., tekhn.red.

[Skill in forging] Masterstvo kuznetss. Moskva, Gos.nauchnotekhn.izd-vo mashinostroit.lit-ry, 1959. 350 p. (MIRA 14:1)

(Forging)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

医眼睛 医结肠周围 医眼神经性致病性治疗性病毒性病毒

PETRENKO, P.V.; EL'KIN, I.L.; KAZAKOV, S.S.; VOZHIK, D.L.; DENISOV, V.V.; PUCHKOV, V.I.; BOGUTSKIY, N.V.; SAVEL'YEV, I.P.; KOLENTSEV, M.T.; MERKULOV, N.Ya.; VERKLOV, V.A.; OVSYANNIKOV, P.A.; SOSNOV, V.D., otv. red.; CHIZHOVA, V.V., otv.red.; ZHUKOVA, A.P., red.; LEVINA, T.I., red.; PRONINA, N.D., tekhn. red.; OVSEYENKO, V.G., tekhn. red.

[Practice of using cutterloaders]Opyt ispol'zovaniia ochistnykh kombainov; sbornik statei. Moskva, 1962. 102 p. (MIRA 16:2)

1. TSentral'nyy institut tekhnicheskoy informatsii ugol'noy promyshlennosti.

(Coal mining machinery)

SAMSONOV, Georgiy Nikiforovich; EL'KIN, Iosif Lazarevich; MERKULOV,
Nikolay Yakovlevich; BOGUTSKIY, Nikolay Vasil'yevich; KAZAKOV,
Stanislay Semenovich; IVANOV, Ivan Konstantinovich; ARKAMOV,
V.I., inzh., otv. red.

[The K-52M (1K-52M) narrow-cut cutter-loader] Uzkozakhvatnyi kompleks K-52M (1K - 52M). Nakva, Nedra, 1964. 207 p. (MIRA 18:4)

- 110 -

Perceiovos limit lalticurero y la. Erathik relected. Member 1901 For yello 1903 e estiva collectiva de villano, brisi r.a. de della bildicarria. Isaare, della p. (Sor. ordena Lemina bela SSSR in. V. I. Lemina).

So: Levilla Limit villa circ. Acceptions, 751.7, Hall, July 1 74.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

Wazakov, V.

Unforgettable mimites. Grazhd.av. 18 no.10:25 0 161.

(Space flight)

Battle glory of artillerymen. Voen. znan. 38
no.11:6-7 N '62.

(Artillery)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

MAZAKOV, V. (g. Dmitriyev, Kurskoy oblasti)

Danage locator. Radio nc.9:50-51 S '60.
(Electric lines--Testing)

(Electric lines--Testing)

KAZAKOV, V.

The construction crew of the Kalinin Collective Farm works the year around. Sel'.stroi.ll no.2:6-7 F '56. (MLRA 9:7)

l.Nachal'nik otdela po stroitel'itvu v kolkhozakh Medvedevskogo rayona, Mariyskoy ASSR. (Building)

IL'IN, S.S.; IL'IN, K.S.; KAZAKOV, V.A., redaktor; FUTORYAN, S.B., kandidat tekhnicheskikh nauk, redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor

[Our method of combining lathe operations in turning out spare parts]
Nash metod kombinirovaniia operatsii pri tokarnoi obrabotke detalei. Pod
red.V.A.Kasakova. Moskva, Gos.isd-vo obor.promysh., 1955.47 p.
(Lathes)
(MLRA 9:1)

PROSKURNYA, F.A., kand.tekhn.nauk; KAZAKOV, V.A.

Drawbar family of motortruck trains. Avt. prom. no.5:22-23 My '60. (MIRA 14:3)

(Automobile trains)

KAZAKOV, V. A.

USBR/Chemistry - Corrosion; Fuels

21 Sep 51

"Corrosion of Metals by Hydrocarbon Solutions of Fatty Acids," L. G. Gindin, V. A. Kasakov

"Dok Ak Nauk BBBR" Vol LXXX, No 3, pp 389-392

Studies the action of benzene, isocotane, and petroleum ether solms of acetic, propionic, butyric, valeric and caproic acids on magnesium, iron, and lead. The corrosive action of 0.5% solms of acetic to caproic acids in isocotane increases with mol wt but not evenly. The rate of corrosion depends nonlinearly on the conen of the acid, and this dependence varies from one metal to another, as illustrated by curves.

GURRVICH, G.D., MALYUTINA, 1.I., KAZAKOV, V.A.,

Hygienic evaluation of the air to Vladivosuos. Truly Vladivos

(M.R. 18 5)

no.2:2222227 162.

1. 12 Vladivostokskogo nauthno fasledovateliskogo instituta

epidemiclogii, mikrobiologii i gigiyeny.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

Horizon of a helicopter pilot. Grazhd.av. 20 no.4:10-11 Ap

(MIRA 16:5)

163. (Helicopters--Piloting)

HAZAKOV, WA

7.2 28(2)

PHASE I BOOK EXPLOITATION

SOV/3254

Vyssheye tekhnicheskoye uchilishche imeni Baumana. Moscow.

Schetno-reshayushchiye pribory (Computers) Moscow, Mashgiz, 1959. 84 p. (Series: Its: Sbornik trudov, vyp. 82) 6,000 copies printed.

Ed.: S. O. Dobrogurskiy, Doctor of Technical Sciences, Professor; Ed. of Publishing House: A. L. Tairova; Tech. Ed.: A. F. Uvarova; Managing Ed. for Literature on Machine Building and Instrument Making (Mashgiz): N. V. Pokrovskiy, Engineer

PURPOSE: This collection of articles is intended for engineers, scientific personnel and students working in the field of computers.

COVERAGE: This is a collection of articles compiled by the department of computers at MVTU and devoted to analysis of computer components: 'diode circuits which perform mathematical operations; drive circuits with a servomotor in the form of a powder magnetic

Card 1/6

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

Computers (Cont.)

sov/3254

clutch, with a mushroom-shape friction clutch and with a friction clutch of the Svetozarov system; investigation or a pulse tracking system and of the drifts occurring in a single-shaft gyrostabilizer. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Kazakov, V, A. Candidate of Technical Sciences. Function Generators Using Diodes

The author states that vacuum-tube or semiconductor diodes may be used in function generator circuits, for which case errors may be as high as 1 to 3 percent, or as low as one-tenth of a percent. When selenium or copper oxide rectifiers are used as diodes, errors will greatly increase. The author emphasizes the advantages of diodeequipped function generators over electromechanical ones (potentiometers, rotatable transformers, etc.). These advantages consist primarily in the absence of mechanical parts

Card 2/6

Computers (Cont.)

SOV/3254

and, consequently, in low inertia. The author presents several schematic diagrams of various types of function generators and derives their equations according to functions of these generators (reproduction of a parabola, sine and cosine functions, multiplication of two independent variables, etc.). The author concludes that errors occurring in the operation of diode function generators are mostly errors of method and instrument errors.

Chetverikov, V. N. Candidate of Technical Sciences. Tracking
Drives With Powder Magnetic Clutches

The author investigates the possibilities of developing
drives with position control or with the rate of change
of position or with both methods combined. A powder
magnetic clutch was used as the actuating element. As
setting elements, a potentiometer and a tachogenerator were
used. From these a voltage proportional to the angle and
speed of rotation of the flywheel is delivered as the input
signal, from which a corresponding clutch velocity is

Card 3/6

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

Computers (Cont.)

scv/3254

29

obtained. The author establishes equations for the system, determines its efficiency and investigates methods for its improvement.

Presnukhin, L. N. Doctor of Technical Sciences, Professor.

Components of Semi-automatic Drives
The author describes various types of mechanical
variable speed drives. Three types of friction mechanisms
are described and the principles of their operation
presented: the disk friction clutch, the mushroom-shaped
friction clutch and the friction mechanism of Svetozarov.
Characteristic equations and some specifications of these
three types are presented.

Smirnov, Yu. M., Candidate of Technical Sciences. Investigation of Tracking Systems Operating Under Pulse Conditions

The author investigates the quality of performance of a semi-automatic tracking system with a manual drive.

Assuming the linearity of the system and, consequently,

Card 4/6

Computers (Cont.)

sov/3254

utilizing the superposition principle, the author finds optimum values of system parameters by comparing results obtained from the investigation of the three most characteristic features of the operation of tracking systems under pulse conditions. These features are: 1) effect of the initial error of the indicator device on the stability and quality of the tracking system. 2) distortion of the coordinate incoming on the system input by tracking errors and the determination of the accuracy of continuous adjustment of this coordinate. 3) effect of acceleration in the rate of change of the input coordinate on the value of the systematic error of adjustment. The results of investigation of these three cases permit making recommendations as to the selection of optimum values of the basic system parameters and particularly, of the optimum value of the time constant of the drive. This, in turn, permits calculating the function generator of the system according to the pulse sequence periods, which change within wide limits.

Card 5/6

KAZAKOV, VA

16(1);28(2)

PHASE I BOOK EXPLOITATION

sov/2349

- Dobrogurskiy, Sergey Osipovich, Vyacheslav Antipovich Kazakov, and Viktor Konstantinovich Tutov
- Schetno-reshayushchiye ustroystva (Computers) Moscow, Oborongiz, 1959. 463 p. Errata slip inserted. 20,000 copies printed.
- Reviewer: N.I. Pchel'nikov, Doctor of Technical Sciences, Professor; Scientific Ed.: L.N. Presnukhin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: M.F. Bogomolova; Tech. Ed.: V.P. Rozhin; Managing Ed.: A.I. Sokolov, Engineer.
- PURPOSE: This book is approved by the Ministry of Higher Education, USSR, as a textbook for students in vtuzes.
- COVERAGE: The book is divided into three parts. In the first part, written by Professor S.O. Dobrozurskiy, various mechanical calculator mechanisms such as friction and gear differential mechanisms are discussed in detail. Here the author stresses the structural peculiarities of the various mechanisms and the

Card 1/13

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R00072348310007-0"

operations they perform. The author also discusses various characteristic components and the problems concerning them which are often encountered in the construction of calculators. Problems of accuracy in operation, the most important requirement any calculator has to meet, are accorded a significant place in the book. In the second part of the book, written by Docent V.A. Kazakov, a study is made of electric and electromechanical devices, i.e., potentiometers, rotary transformers, and various differentiating and integrating devices. The third part, written by V.K. Tutov, covers elements of servosystems, their fundamental static and dynamic characteristics, and the functions that they can perform. Among the types of servosystem elements studied are devices which determine the difference between two values, devices which handle the input signal, and devices which amplify the error signal. Among the error- measuring devices, a study is made of selsyns, while amplifiers are represented by electronic, thyratron, and magnetic amplifiers and amplidynes. Direct and alternating current motors which handle the input signal are considered last. No personalities are mentioned. References are given at the end of each of the three parts of the book.

Card 2/13

Computers		sov/2349	
8. 9. 10. 11.	Axles and shafts Couplings Bearings Forward motion guides Locking devices Gauges Mechanisms with matching indicators	2	27 28 30 31 32 35
	Transmission of Motion in Mechanisms Transmission of rotary motion Friction transmission Toothed transmissions	;	37 37 37 39
15.	Mechanisms Performing Mathematical Operation Summing mechanisms Differential mechanisms Crank summing mechanisms Other designs of summing mechanisms Multiplication mechanisms	8	51 52 52 55 56 61
Card 4	/ 13		

Compute	ers SOV/2349	
	Multiplication by constant factors	61
	Sliding-crank multiplication mechanisms with constant scale	61
	Multiplication mechanisms with variable scale	66
	Mechanisms for multiplication by means of raising to a	67
17.	square Trigonometric mechanisms	71 82
18.	Graphs	82
19.	Cam mechanisms Disc cams	84 84
	Conoids	95
	Mechanisms with lower pairs for the approximate reprodu	iction 108
20.	of complicated functions of one variable Mechanisms for the differentiation and integration	114
20.	Friction mechanisms with variable reduction ratio	114
	Automatic friction mechanism	123 128
	Graphic tachometer Mean velocity tachometer	130
Card 5	/13	

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R0007213100 Computers SOV/2349)07-0
Bibliography	131
PART II. ELECTRIC AND ELECTROMECHANICAL CALCULATORS	
Introduction	132
 Ch. I. General Properties of Electric Calculators l. Electromechanical calculator networks 2. Operational amplifiers 3. Methods of adding electrical values 	133 133 138 146
Ch. II. Potentiometers 4. Errors of potentiometers caused by the load 5. Design of housings for functional potentiometers 6. Design of housings whose heights tend to zero or infinity 7. Potentiometer with wave-shaped housing 8. Design of resistances in potentiometers and rheostats for multicascade circuits Circuits for the multiplication of monomials	152 153 163 169 172 175
Card 6/13	

Computers SOV/2349	
Ch. IV. Differentiating Devices 19. Magnetoelectric tachometer 20. Tachogenerator 21. Asynchronous tachometer 22. Differentiating circuit of RC type	262 263 264 269 276
Ch. V. Integrating Devices 23. An electric motor as an integrator 24. Integrating drive 25. Integrating circuit of RC type 26. Electronic integrator	279 280 281 289 290
Bibliography	
PART III. ELEMENTS OF SERVOSYSTEMS	
Ch. I. Selsyns 1. Construction of selsyns 2. Operational principle of selsyns	
Card 8/13	

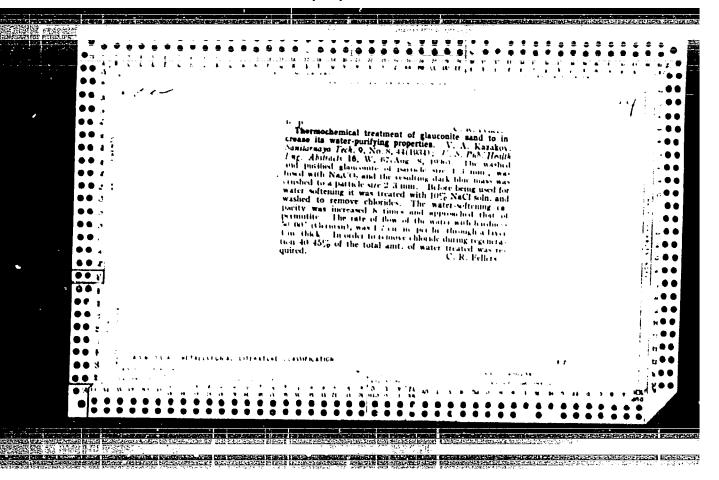
Computers SOV/2349		
3. 4.	Operational principle and construction of magslips	300
4.	System of equations which describe the physical processes in the selsyns operating in the indicator system	301
5.	Longitudinal and lateral components of the secondary our- rent of a sensor and receiver operating in an indicator	
	mode	305
6.	Phase currents in an indicator synchronized transfer	308
7.	Synchronizing moment	309
8.	Specific statistical synchronizing moment	312
9. Operating the selsyn sensor on several parallely connecte		i
	receivers	314
10.	Classes of accuracy of the indicator selsyns	315
11.	The exact and rough reading in the indicator synchronized transfer	318
12.	Operation of the selayns in the transformer system	321
13.	Velocity effect on the exactness of measurement of the displacement angle	324
14.	Increasing the accuracy of measuring the displacement angle	327
15.	Elimination of the false zero from a dual-speed system	330

Card 9/13

card 11/13

sov/2349	
Computers 394)4
C. Amplidynes 29. The operational principle and construction of an amplidyne 30. Statistical characteristics of an amplidyne 31. Amplification coefficient of an emplidyne 32. Dynamic characteristics of an amplidyne 33. Transfer function of an amplidyne operating in connection with the control motor Ch. III. Control Motors A. Direct Current Motors 34. Methods of adjusting the speed of a direct current motor with independent excitation 35. Static characteristics of a direct current motor during the adjustment of rate of change of armature voltage 36. Static characteristics of a direct current motor 37. Static characteristics of a direct current motor address characteristics and	95 97 91

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0" Computers SOV/2349 Dynamic characteristics of a direct current motor 37. during the adjustment of rate of change of armature voltage Transfer function of a direct current motor during the 38. 415 adjustment of rate of change of excitation current Dynamic characteristics of a direct current motor during the adjustment of rate of change of excitation current 40. Transfer function of a direct current motor during the 419 adjustment of rate of change of excitation current 41. The effect of armature inductance on the dynamic 420 characteristics of the motor 42. The amplitude-phase characteristic of a direct current 421 motor with independent excitation 426 Two-phase Asynchronous Motors Operational principle and construction of a two-phase 426 asynchronous motor 44. System of equations describing the physical processes 426 Card 12/13



<u>Kásahori, re ne</u>

USSM/Engineering
Salinometers
Hydraulic Hachinery

Jan 1948

"Automatic Determination of High Saline Content by a Standard Salinometer with Small Heasuring Capacity," A. F. Vinogradov, V. A. Kazakov, All-Union Sci Res Inst for Water Supply, Sewage, Hydrotech Construction and Engr Hydrology, 3 pp

"Zavod Labor" Vol XIV, No 1

Explains construction of a hydraulic apparatus for rapid determination of salt content of concentrated solutions. Apparatus needs further improvement before it is put to industrial use.

PA 61T34

- 1. KAZAKOV V.A., VARAZASHVILI G.S., ABELISHVILI G.V. Eng.
- 2. USSR (600)
- 4. Soil Percontion
- 7. Field method of determining the filtration coefficient of cohesiv soils, Gidr.stroi. 21 no.12, 1952.

9. Monthly List of Russian Accessions. Library of Congress, April 1953, unclass.

KAZAKOV, V.A.

AID P - 2590

Subject

: USSR/Hydraulic Engineering

Card 1/1

Pub. 35 - 13/20

Authors

: Kovalenko-Kazantsev, G. I. and Kazakov, V. A., Engs. Commence of the second

Title

Operation of the drainage suction system lowering the

level of underground water at construction sites

Periodical

: Gidr stroi, 4, 38-39, Ap 1955

Abstract

: Experiments made with a certain type of the pumping installation at the Gor'kiy Hydro-Power Plant construction project in 1953 are reported. The capacity of this LIU-3 type pump with a 210 kw motor is 60-70

cu m per hr. Two diagrams.

THE PERSON NAMED OF THE PERSON NAMED IN COLUMN 18 YOUR PROPERTY OF THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN

Institution: None

Submitted : No date

KAZAKOV, V.A.; KOVALENKO-KAZANTSEV, G.I.

Automatic light signals for controlling the operation of borehole
Automatic roumping apparatus. Rats. i izobr. predl. v stroi. no.107:14-17
filter pumping apparatus. Rats. i izobr. predl. v stroi. no.107:14-17
filter pumping control) (Pumping machinery)

155. (Automatic control) (Pumping machinery)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

sov/76-33-7-36/40

5(4) AUTHORS: Shluger, M. A., Kazakov, V. A.

TITLE:

The Effect of ${\rm SO}_4^2$ -lons on the Formation of a Cathodic Film in

the Electrodeposition of Chromium

PERIODICAL:

Zharnal fizicheskoy khimii, 1959, Vol 33, Nr 7.

pp 1666 - 1667 (USSR)

ABSTRACT:

The authors investigated the effect exerted by $SO_{\frac{1}{4}}^{2}$ -ions on the formation of metallic films in the electrolysis of chromic acid solutions. The electrodeposition of chromium was observed by means of an MKU-1-microcamera when light passed through. A pointed copper wire (0.3 mm thick) was used as a cathode, which

had been coated with chromium before the experiment. The electrolysis took place at 20°, a current density of 50 a/dm2, and a Cro,-concentration of 250 g/1. The microfilm pictures obtained (Figs 1-3) showed that in the presence of $S0_4^{2-}$ -ions a colloidal

film round the cathode is formed by chromium deposition. A denser film is produced by increasing the concentration of 50, ions. Accordingly, the experimental results obtained confirm the data of the article months. the data of the article mentioned in reference ?, contrary to

Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

1215年,李朝等 建加强性发射器

The Effect of SO_4^{2-} -Ions on the Formation of a Cathodic SOV/76-33-7-36/40Film in the Electrodeposition of Chromium

other data indicating that an addition of SO_4^2 —ions in the electrodeposition of chromium does not lead to a loosening but to the formation of a cathodic film. Thus, it is possible to explain several phenomena observed in the electrodeposition of chromium. There are 3 figures and 7 references, 6 of which are Soviet.

SUBMITTED: March 23, 1959

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

SHIUGER, M.A.; KAZAKOV, V.A.

Microstudy of a cathodic process during the electrodeposition of chromium. Zhur.prikl.khim. 33 no.3:644-651 Mr '60. (MIRA 13:6)

(Chromium plating)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

FAZAKOV, V. A., SERYL, I. I., DVORETSKIY, A. S., SEREBRYAKOV, R. A., KOLESOV, I. V., SIKOLENKO, V. F., ORAVETS, Y., and FROLOV, N. S.

"Choice of Coordinates in Regard to the Entrance of Particles into an Emulsion Chamber (STuU-1),

Joint Institute of Nuclear Research, Dubna, USSR.

report submitted for the IAFA conf. on Nuclear Electronics, Belgrade, Yugoslavia 15-20 May 1901

5.2200,18.7400,5.1310

78223 SOV/80-33-3-24/47

AUTHORS:

Shluger, M. A., Kazakov, V. A.

TITLE:

Microinvestigation of Cathode Processes in Chromium

Electroplating

PERTODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3, pp 644-

651 (USSR)

ABSTRACT:

This is the first of a series of studies on the mechanism of electrolytic precipitation of chromium. The cathodic processes occurring on reduction of chromic acid solution containing SO_4^{2-} were investigated in a model MKU-l

apparatus which allows visual study as well as taking still and motion pictures. The tip of a thin, chromium-covered copper needle was the cathode, and platinum wire was the anode. According to A. T. Vagranyan and D. N. Usachev (ZhFKh, 1958, Vol 32, p 1900), the polarization curve of the above reduction consists of a section (aboe) corresponding to the incomplete reduction of chromic

Card 1/4

Microinvestigation of Cathode Processes in Chromium Electroplating

acid $(cr^{6+} \rightarrow cr^{3+})$ and of section (e-d) which characterizes three simultaneous electrode reactions: (1) $cr^{6+} \rightarrow cr^{3+}$; (2) $H^+ \rightarrow H$; and (3) $cr^{6+} \rightarrow cr$.

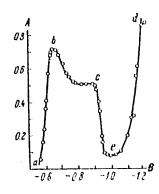


Fig. 1. Polarization curve of electrolytic deposition of chromium (according to A. T. Vagramyan and D. N. Usachev); (A) current (in ma); (B) potential (in v).

Card 2/4

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310007-0"

Microinvestigation of Cathode Processes in Chromium Electroplating

78223 **307**/80-33-3-24/47

In the incomplete reduction range of potential (abce), a layer of electrolyte with a much smaller CrO2 concentration (greater pH value) than the bulk of the electrolyte was formed around the cathode. Nascent hydrogen formed at the cathode, diffused through this layer, and reduced sesquivalent chromium to trivalent not only at the cathode but also at a considerable distance from it. In the higher potential value range (e-a), the pH increased to a value at which a colloidal film could form around the cathode. This cathodic film hampered the diffusion of hydrogen and facilitated the formation of hydrogen bubbles as well as the reduction of sesquivalent chromium to metallic chromium. The thickness and compactness of the cathodic film increased with the SOA content in the solution, with the current density, and with the lowering of the temperature of tge electrolyte. Above the optimum concentration of SO27, however, the eathcole film became so dense that it inhibited the cathodic processes.

Card 3/4

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310007-0

Microinvestigation of Cathode Processes in Chromium Electroplating

78223 sov/80-33-3-24/47

In order to obtain bright ememium deposits, the temperature and current density must be adjusted accordingly. It was noted that thicker cathodic films gave a metastable hexagonal structure to the chromium deposit; thinner films gave stable body-centered cubic structure. There are 7 figures; and 14 references, 2 U.S., 12 Soviet. The U.S. references are: Sasaki, Sekito, Trans. Electrochem. Soc., 59, 437 (1931); C. A. Snavely, ibid., 92, 35 (1947).

SUBMITTED:

June 4, 1959

Card 4/4

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

Managaran and Company and American

SHLUGER, M.A., RYABOY, A.Ya., KAZAKOV, V.A.

Internal stresses in chromium platings deposited from a tetrachromate electrolyte. Zhur.prikl.khim. 33 no.5:1217-1218 My '60. (MIRA 13:7)

(Chromium plating) (Strains and stresses)

S/0058/64/000/002/A039/A039

ACCESSION NR: AR4032164

SOURCE: Ref. zh. Fiz., Abs. 2A337

AUTHORS: Dvoretskiy, A. S.; Kazakov, V. A.; Kolesov, I. V.; Oravets, Yu.; Sikolenko, V. F.; Skry*l', I. I.; Frolov, N. S.

TITLE: Installation for automatic registration of the coordinates of a particle entering a pellicle stack

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 4. M., Gosatomizdat, 1963, 15-27

TOPIC TAGS: high energy particle interaction, emulsion technique, electronic particle identification, particle trajectory recording, particle trajectory photography

TRANSLATION: An automatic installation is described, combining the emulsion technique for high-energy particle interactions and the

Card 1/2

ACCESSION NR: AR4032164

electronic method of identifying the particles. The installation can register the coordinates at which the required particles enter the pellicle stack with ±0.5 mm accuracy. It consists of a spark-counter telescope, a pellicle stack, a recording chamber, and electronic control blocks. The coordinates of the spark that develops along the track of the particle passing through the counters are photographed through an optical unit that produces pictures of two mutually-perpendicular projections of each spark on one frame of motion picture film. High accuracy in the determination of the coordinates is attained by precision construction of the optical and mechanical units of the installation, by selecting the optimum operating conditions of the spark-counter telescope, and by using a triggered-voltage pulse generator with low delay (not more than 0.25 µsec). The use of the insulation described yields a substantial gain in the time required to interpret the experimental data. L. I.

DATE ACO: 31Mar64

SUB CODE: PH, SD

ENCL: 00

THE RESERVE OF THE PROPERTY OF

Card 2/2

L 10783-66 EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/JG ACC NR: AP6000008

SOURCE CODE: UR/0080/65/038/011/2595/25

AUTHOR: Kazakov, V. A.; Kipin, A. I.; Martynova, L. S

ORG: None

TITLE: Electrodeposition of chromium at high temperatures

Zhurnel prikladnoy khimii, v. 38, no. 11, 1965, 2595-2596

TOPIC TAGS: electrodeposition, chromium, electrolysis

ABSTRACT: The precipitation of chromium was carried out in an autoclave at 1000. Steel samples 6 x 6 mm were used as the cathode and platinum wire was used as the anode. One electrolyte was prepared from chromium anhydride and another was prepared from fluorine. In the latter case, the sulfuric acid was previously precipitated with barium carbonate.

The anions were added as SO_L and F. The experiments with the sulfate electrolyte were done in a glass vessel, and those with the fluorine- of containing electrolyte were done in a platinum ressel. A figure shows the effect of the content action of foreign anions current density, and the effect of the concentration of foreign anions, current density, and electrolysis temperature on the yield of chromium with respect to current. The concentration of chromium trioxide was 300 grem/liter in all cases. Results show that the electrolysis temperature has a great

Card 1/2

UDC: 621.357.9+546.76

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310007-0"

KAZAKOV, V.A.; LIFIN, A.I.; MARTYHOVA, L.S.

Chromium electrodeposition at high temperatures. Zhur.prikl.khim. 38 no.11:2595-2596 N 465. (MIRA 18:12)

1. Submitted November 10, 1963.

EWT(d)/EWP(1) - IJP(c) - GG/BB ACC NRI AM6008543 Monograph Kazakov, Vyacheslav Antipovich Computing devices of analog computers (Vychislitel'nyye ustroystva mashin nepreryvnogo deystviya) Moscow, Izd-vo "Mashinostroyeniye", 1965. 427 p. illus., biblio. Textbook for students at institutions of higher learning specializing in mathematical and computing instruments and devices. Errata slip inserted. 9000 copies printed. TOPIC TAGS: analog computer, computer component, potentiometer, pulse integrator, differentiating circuit, transistorized circuit, magnetic amplifier, function generator, adder, electron multiplier PURPOSE AND COVERAGE: This textbook had been approved by the Ministry of Higher and Secondary Special Education USSR for students in schools of higher education taking special courses in "Mathematical and computing instruments and devices." It may also be of special interest to engineering, technical, and scientific workers concerned with the design and operation of analog computers. The book discusses the theoretical principles, calculation, and design of electromechanical and electronic analog computers. Computer construction and effective methods of plotting basic circuits to obtain various functional relations are also described. There are 71 references of which 66 are Soviet and 5 are non-Soviet.

L 25813=66	•
ACC NR: AM6008543	0.
TABLE OF CONTENTS	
Foreword 3	
Ch.I. Some information on the general theory of computers 7 1. Electromechanical and passive computing quadrupoles 7 2. Summation methods for electric values 15 3. Precision of computing devices 20	
Ch.II. Potentiometers 1. Errors of loaded potentiometers 29 2. Design of frames for functional potentiometers 39 3. Potentiometer error caused by its step-by-step registance 43	changes;
4. Different forms of frames in functional potentiometers 5. Calculation of potentiometer and rheostat resistances for	45 cascade
circuits 52 6. Potentiometer circuits used to reproduce different functio 7. Shunt potentiometers reproducing functions of one or two 1 pendent variables 72	ns - 62 nde-
8. D-c bridge circuits 81 9. Structural design of potentiometers 92	-
Cord 2/5	
	·

L 25813-66 ACC NR. AM6008543 Ch.III. Variable (ratio) transformers -- 98 1. Sine-cosine variable transformers -- 98 2. Vector-plotting variable transformers -- 110 3. Linear variable transformers -- 115 4. Structural design of variable transformers -- 127 5. Error corrector in variable transformers -- 132 6. Selection of variable transformer parameters in computing circuit design -- 135 7: Circuits of computing devices using variable transformers -- 140 Ch.IV. Electromagnetic differentiators and integrators -- 157 1. Magnetoelectric tachometer -- 157 2. Tachogenerator -- 159 3. Asynchronous tachometer -- 166 4. The electric motor as an integrator -- 173 5. Integrating drives -- 174 Ch.V. Differentiating and integrating passive RC-type circuits - 189 1. Differentiating network -- 189 2. Integrating network -- 193 Ch.VI. Operating amplifiers using electron tubes -- 197 1. Parameters of d-c amplifiers with negative feedback -- 197 2. Standard computing circuits with amplifiers ---- 210

- The hand the second of the second the second of the seco

ACC NRAM6008543 3. Reproducing various functions with a single amplifier 235 4. Operating amplifier with differential input cascade 249 5. Causes of zero drift in d-c amplifiers 254 6. Operating amplifiers with parametric zero-drift adjustment 258 7. Operating amplifiers with atuomatic zero adjustment 265 8. Zero-drift adjustment by means of periodically charged capacities of two amplifiers 271 Ch.VII. Differentiators of slowly varying voltages and integrators with high-integration time constant 274 1. Discrete method of differentiating continuously varying voltages 274 2. Frequency-pulse integrator 278 Ch.VIII. Operating transistorized amplifiers with automatic zero adjustment 283 1. Operating transistorized amplifiers with automatic zero adjustment 283 2. Transistorized integrator using current amplifier 391 Ch.IX. A-c summation and differentiation devices 305 1. Transistorized a-c summing amplifier 305 2. A-c differentiators 308 Ch.X. Operating magnetic amplifiers 313 Cord 4/5		
3. Reproducing various functions with a single amplifier 235 4. Operating amplifier with differential input cascade 249 5. Causes of zero drift in d-c amplifiers 254 6. Operating amplifiers with parametric zero-drift adjustment 258 7. Operating amplifiers with atuomatic zero adjustment 265 8. Zero-drift adjustment by means of periodically charged capacities of two amplifiers 271 Ch.VII. Differentiators of slowly varying voltages and integrators with high-integration time constant 274 1. Discrete method of differentiating continuously varying voltages 274 2. Frequency-pulse integrator 278 Ch.VIII. Operating transistorized amplifiers 283 1. Operating transistorized amplifiers with automatic zero adjustment 283 2. Transistorized integrator using current amplifier 301 Ch.IX. A-c summation and differentiation devices 305 1. Transistorized a-c summing amplifier 305 2. A-c differentiators 308 Ch.X. Operating magnetic amplifiers 313	L 25813-66	0
4. Operating amplifier with differentiation for the causes of zero drift in d-c amplifiers 254 6. Operating amplifiers with parametric zero-drift adjustment 258 7. Operating amplifiers with atuomatic zero adjustment 265 8. Zero-drift adjustment by means of periodically charged capacities of two amplifiers 271 Ch.VII. Differentiators of slowly varying voltages and integrators with high-integration time constant 274 1. Discrete method of differentiating continuously varying voltages 274 2. Frequency-pulse integrator 278 Ch.VIII. Operating transistorized amplifiers 283 1. Operating transistorized amplifiers with automatic zero adjustment 283 2. Transistorized integrator using current amplifier 301 Ch.IX. A-c summation and differentiation devices 305 1. Transistorized a-c summing amplifier 305 2. A-c differentiators 308 Ch.X. Operating magnetic amplifiers 313	ACC NR.AMOUUS43	
Ch.VII. Differentiators of slowly varying voltages and integrators with high-integration time constant 274 1. Discrete method of differentiating continuously varying voltages 274 2. Frequency-pulse integrator 278 Ch.VIII. Operating transistorized amplifiers 283 1. Operating transistorized amplifiers with automatic zero adjustment 283 2. Transistorized integrator using current amplifier 301 Ch.IX. A-c summation and differentiation devices 305 1. Transistorized a-c summing amplifier 305 2. A-c differentiators 308 Ch.X. Operating magnetic amplifiers 313	4. Operating amplifier with differential important of the second of two amplifiers with parametric zero-drift adjustment of two amplifiers — 271	nt 258 265 apacities
2. Frequency-pulse integrator 278 Ch.VIII. Operating transistorized amplifiers 283 1. Operating transistorized amplifiers with automatic zero adjustment 283 2. Transistorized integrator using current amplifier 391 Ch.IX. A-c summation and differentiation devices 305 1. Transistorized a-c summing amplifier 305 2. A-c differentiators 308 Ch.X. Operating magnetic amplifiers 313	Ch.VII. Differentiators of slowly varying voltages and integration to appear and 2711	
1. Operating translatorized amplifiers with advantation adjustment 283 2. Translatorized integrator using current amplifier 391 Ch.IX. A-c summation and differentiation devices 305 1. Translatorized a-c summing amplifier 305 2. A-c differentiators 308 Ch.X. Operating magnetic amplifiers 313	271	
1. Transistorized a-c summing amplifier 309 2. A-c differentiators 308 Ch.X. Operating magnetic amplifiers 313	1. Operating translatorized amplifiers with addomatic 2013	1
A conserve with the second sec	n mrangistorized a-c summing amplified 505	
Cord 14/5	Ch.X. Operating magnetic amplifiers 313	
	Cord 11/5	

L 25813-66 0 ACC NR: AM6008543 1. Principles of operation and basic parameters of magnetic amplifiers -- 313 2. Inertia of magnetic amplifiers -- 325 3. Operating a magnetic amplifier with deep negative feedback - 330 4. Standard computing circuits with magnetic amplifiers -- 333 5. Method of increasing the time constant of a magnetic amplifier-343 Ch.XI. Electron-function generators -- 349

1. Specialized diode-function generators -- 350

2. Multipurpose diode-function generators -- 364

3. Function generators using tyrite resistors (varistors) -- 368 4. Cathode-ray function generator -- 375 Ch.XII. Electronic devices for modeling standard nonlinear relationehips -- 380 Ch.XIII. Electronic multipliers and dividers -- 385 1. Direct-action multipliers and dividers -- 386 2. Indirect-action multipliers and dividers -- 418 Bibliography -- 422 SUB CODE: 09/ SUMB DATE: 070ct65/--65/ ORIG REF: 065/ OTH REF: 006 Card 5/5 dc

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0

ENT(d)/FSS-2 1. 46049-56 SOURCE CODE: UR/0000/66/000/000/0079/0086 ACC NR: AT6022349 67 AUTHOR: Kazakov, V. A. 14 ORG: None TITLE: Antinoise properties of a communications system with comparison SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya teorii i tekhniki peredachi diskretnykh signalov. Doklady. Moscov, 1966, 79-86 TOPIC TAGS: transponder, communication channel, data transmission, Gaussian distribution, signal reception, signal transmission, communication system ABSTRACT: The basic characteristics of communications systems with comparison is the

ABSTRACT: The basic characteristics of communications systems with comparison is the fact that the decision on reception or nonreception of a transmitted signal is made on the transmitting side of the system. The author considers the processes which take place in a communications system of this type with an unlimited number of repeated transmissions. It is assumed that signal energy and the dimensions of reception regions are independent of transmission multiplicity and the results of preceding transmissions. Formulas are derived for determining the probability of reliable reception ing additive Gaussian noise with a given spectral density in the forward and rechanges channels. Analysis of the antinoise properties of communications systems with

Cord 1/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0

ACC NR: AT6022349

comparison shows that these systems have greater freedom from interference under optimum operating conditions than unidirectional communications systems. In theory, if the reverse channel of this type of system is idealized the results are better than for an interrogator-responder system. Orig. art. has: 3 figures, 11 formulas.

SUB CODE: 09/7/SUBM DATE: 09Apr66/ ORIG REF: 002

Card 2/2 ∠ C

£ 46049-05

KAZAKOV, Vyacheslav Anttipovich; SMOLOV, V.B., doktor tekhn. nauk prof., retsenzent; SAPOZHKOV, K.A., kand. tekhn. nauk retsenzent retsenzent; SANNIKOV, K.A., kand. tekhn. nauk retsenzent

[Calculating devices of analog computers] Vychislitel'nye ustroistva mashin nepreryvnogo deistviia. Moskva, Mashinostroenie, 1965. 427 p. (MIRA 18:12)

sov/86-59-1-34/39

AUTHOR: Kazakov, V.B., Sen Lt

TITLE: A Computer Slide Rule for Helicopters (Vertoletnaya lineyka)

PERIODICAL: Vestnik vozdushnogo flota, 1959, Nr 1, pp 85-86 (USSR)

ABSTRACT: The article gives a description of a computer slide rule designed for the use of helicopter crews. The author states that the atmospheric conditions and other factors affect to a considerable degree the thrust of the Mi-4 helicopter rotor. High temperature of the outside air, high absolute humidity, poor wind conditions, and the location of some landing fields high above sea level decrease the thrust of the rotor and, consequently, the load capacity of a helicopter. The slide rule facilitates the necessary computations, and its skillful use by the crews makes it possible to find the maximum load a helicopter is capable of carrying (taking off and landing) under various conditions of flight. There is one diagram.

Card 1/1

APPROVED'FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

PHASE I BOOK EXPLC TATION 80V/6012

Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

Avtomatioheskoye regulirovaniye i upravleniye (Automatic Regulation and Control) Moscow, Izd-vo AN SSSR, 1962. 526 p. Errata slip inserted. 9000 copies printed.

Resp. Ed.: Ya. Z. Tsypkin, Professor, Doctor of Technical Sciences; Ed. of Publishing House: Ye. N. Grigor'yev; Tech, Ed.: I. H. Dorokhina.

PURPOSE: This book is intended for scientific research workers and engineers concerned with automation.

COVERAGE: The book is a collection of articles opnsisting of papers delivered at the 7th Conference of Junior Scientists of the Institute of Automation and Telemechanies, Academy of Sciences USSR, held in March 1960. A wide range of scientific and technical questions relating to automatic regulation and control is covered.

Card 1/12

22

3, \

14

Automatic Regulation (Cont.)

SOV/6012

The articles are organized in seven sections, including automatic control systems, automatic process control, computing and decision-making devices, automation components and devices, statistical methods in automation, theory of relay circuits and finite automatic systems, and automated electric drives. No personalities are mentioned. References are given at the end of each article.

TABLE OF CONTENTS:

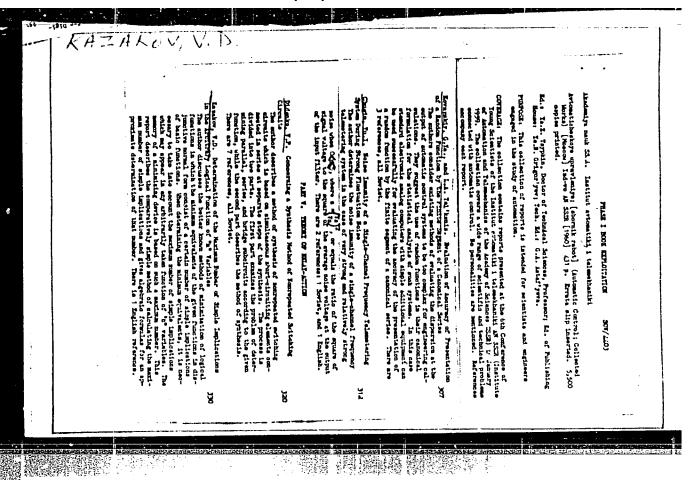
PART I. AUTOMATIN CONTROL SYSTEMS

Andreychikoy, B. I. The effect of dry friction and slippage [play] on error during reverse gear operation of servo-feed systems

Andreychikov, B. I. Dynamic accuracy of machine toels with programmed centrol

Card 2/12

Card 11/12



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0

KAZAKOV, V. D.

"The Form of Minimum Symmetric Boolean Functions With Any Number of

Variables."
"The Realization of Boolean Functions with n Variables on Contactless Logical
"The Realization of Boolean Functions with n Variables on Contactless Logical
"The Realization of Boolean Functions with n Variables on Contactless Logical Switches by Means of the Method of Supplement to a Definition," (with V.V. Naumchenko) Papers presented at:

Seventh Scientific and Technical Conference of Young Scientists of the Institute of Automation and Telemechanics of the AS USSR. March 14-16 1960.

CIA-RDP86-00513R000721310007-0" APPROVED FOR RELEASE: 06/13/2000

3/044/62/000/006/001/127 B112/B104

AUTHOR:

hazakov. V. D.

TITLE:

Determination of the maximum number of simple implicants of

an arbitrary logical function of n variables

ERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 9, abstract 6A59 (Sb. "Avtomat. upravleniye". M., AN SSSR, 1960, 330-338)

TEXT: A method is described for setting up functions of the algebra of logic with a large number of simple implicants (i. c., very complex reduced disjunctive normal forms (d. n. f.)). This method makes it possible to set up functions of n arguments, having a number of terms of the order of 3"/n in the reduced d. n. f. [Abstracter's note: The author's statement that the above-mentioned method makes it possible to obtain functions maximally composite (with respect to the number of terms in the reduced d. n. f.) and a formula expressing this maximum number cannot be regarded as proved.] [Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

GADZHIYEV, M.Yu.; GUL'KO, F.B.; DZHELYALOV, A.R.; DUDNIKOV, Ye.Ye.; KAZAKOV, V.D.; LITOVCHENKO, I.A.; NORKIN, K.B.; PROKHOROV, N.L.

Seventh conference of young scientists of the Institute of Automatic and Remote Control of the Academy of Sciences of the U.S.S.R. Avtom. i telem. 21 no.9:1326-1331 \$ '60. (MIRA 13:10) (Automatic control--Congresses)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

KAZAKOV, V.D.; KUZNETSOV, O.P.

List of foreign literature on relay devices and finite automata for 1958. Avtom. i telem. 21 no.9:1332-1338 S '60.

(NIRA 13:10)

(Bibliography--Automatic control)

List of Russian works on the theory of switching circuits and finite automata for 1959. Avtom. i telem. 22 no.2:275-277 F '61.

(Bibliography--Automatic control)

(Bibliography--Switching theory)

1/1105

S/103/62/023/009/005/007 D201/D308

AUTHOR: Kazakov, V. D. (Moscow)

Card 1/2

TITLE: Minimization of logic functions of a great number of

variables

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 9, 1962,

1237-1242

TEXT: The author considers the algorithm of minimization of logic functions which are incompletely specified in the sense as given by P. Roth (Minimization over Boolean Trees, IBM J. Research and Development, no. 5, 1960). The algorithm consists of determining not the truly minimal, but "adequately" good non-redundant expressions of functions $H_i \subset M_N$, where M_i is the set of all functions H_i such that $F \to H_i$ and $H_j \to G$, where F and G are given logic functions and $F \to G$. With the aid of either specialized or universal computers the algorithm makes it possible to determine nearly minimum expressions of functions of up to 20 variables. The

Minimization of logic ...

S/103/62/023/009/005/007 D201/D308

algorithm is used for the approximate evaluation of the number of basic steps when minimizing a function of n variables. There is 1 table.

SUBMITTED: January 11, 1962

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0

KAZAKOV, V. D.

"Algorithms of finding the absolute minimal expressions for a logical funtion" report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

KAZAKOV, V. D. (Moskva)

Minimization of the logical functions of a great number of variables. Avtom. i telem. 23 no.9:1237-1242 S '62. (MIRA 15:10)

(Functions of several variables)

111826

3/044/63/000/001/046/053 A060/A000

AUTHOR:

Kazakov, V. D.

TITLE:

Minimal forms of symmetric boolean functions of an arbitrary

number of variables

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1963, 33, abstract 1V144

(In collection: "Avtomat. regulirovaniye i upr.", Moscow, AN SSSR,

1962, 468 - 473)

By $B_n(a_i, a_j)$ we shall denote a set of non-repeating elementary pro-TEXT: ducts so that there is at least one product whose positive part (variables without negation) corresponds to some arbitrary combination of n elements from ai, and at least one product whose negative part corresponds to an arbitrary combination of n elements from a_j. Theorem: The minimal form of a symmetric function is given by one of the possible minimal representations min $B_n(a_1,\ a_j)$ of the sets $B_n(a_i, a_j)$, where the number of the elements of the sets $\min B_n(a_i, a_j)$ is equal to $\max \left[c_n^{a_i}, c_n^{a_j} \right]$. If $c_n^{a_i} \neq c_n^{a_j}$ then the minimal form is not uniquely determined. The lower bound is cited for the estimate of the maximal number

card 1/2

Minimal forms of symmetric...

S/044/63/000/001/046/053 a060/a000

 $K_{\rm max}^{\rm n}$ of minimal forms. This number increases very steeply. For example, $K_{\rm max}^{\rm 5} = 70^4$, $K_{\rm max}^{\rm 6} \geqslant 26624$.

R. G. Bukharayev

[Abstracter's note: Complete translation]

Card 2/2

KAZAKOV, V.D.; KUZNETSOV, O.P.

List of foreign literature on the theory of switching devices and finite automata for 1959-1960. Avtom. i telem. 24 no.5: 699-712 My 163. (MIRA 16:6)

(Bibliography—Switching theory)
(Bibliography—Automatic control)
(Bibliography—Electric relays)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0

KAZAKOV, V.D.

International symposium on the theory of switching devices and finite automata. Avtom. i telem. 24 no.6:856-858 Je '63.

(MIRA 16:7)

(Automatic control—Congresses)
(Switching theory—Automatic control)

ACCESSION NR: AT4031769

5/0000/63/000/000/0163/0169

AUTHOR: Kazakov, V. D.

TITLE: Minimization of Boolean functions with consideration of the operation of removal from parentheses

SOURCE: AN SSSR. Strukturnaya teoriya releyny*kh ustroystv (Structural theory of relay devices). Moscow, Izd-vo AN SSSR, 1963, 163-169

TOPIC TAGS: control system, automatic control, relay, Boolean function, minimization, Boolean function minimization

ABSTRACT: The author notes, by way of introduction, that the classically derived minimal expressions of Boolean functions of the type sp or ps are not, in the majority of cases, genuinely minimal, since the application to such expressions of the laws Ax + Bx = (A + B)xand (A + x) (B + x) = AB + x makes it possible to shorten them. As a result, expressions of a more complex form are obtained: sps... and psp. Since their writing includes parentheses, such expressions have become known as parenthetical expressions. Referring to the work of Abhankar (Minimal 'Sum of products of Sums" expressions of Boolean functions. IRE Trans., v. EC - 7, no. 4, p. 268-276, 1958), the author calls attention to the problem of finding new regular methods of minimization, which will make it possible to find absolutely minimal

Card 1/3

ACCESSION NR: AT4031769

expressions of arbitrary Boolean functions. In the present paper, a short description is given of possible algorithms for finding absolutely minimal expressions of given Boolean functions along with an approximate estimation of the number of elementary operations necessary to achieve absolutely minimal expressions of functions at a given number of variable n. The result obtained permits the assertion that it is practically impossible to find absolutely minimal expressions when $n \ge 4$ and, thus, directs attention to another problem — that of the parenthesis treatment of minimal sp- and ps-expressions. In the first part of the article, basic definitions are introduced and the statement of the problem is formulated. The problem is stated by the author in the following terms: find an algorithm which will make it possible to discover Z(f) of a given function f. In this connection, it is pointed out that the widely-used designation of this problem — finding minimal parenthetical expressions of a given Boolean function — is inexact, since there may be z(f), the writing of which does not involve parentheses (for example, $x_1 + x_2$ or $x_1 + x_2x_3$, etc.) and, conversely, the presence of parentheses even in a minimal ps-expression by no means guarantees that there will not be found a z(f) among expressions of a more complex form. In the author's treatment of the problem, the finding of Z(f), Zsp(f) and Zps(f) requires the arm of two fundamental operations: (a) finding the items of the given function; that is, such f that

Card 2/3

ارز

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

ACCESSION NR: AT4031769

 $\sum_{G_i} \sim f$, where f is a given function; (b) finding the cofactors of the given functions; that is, such as hi that $\bigcap h_i \sim f$, where f is a given function. The author then proceeds to find the minimal expressions, the form of which is written by means of a finite number of symbols s and p. After this, Z(f) is derived. The article concludes with an estimate of the number of elementary operations required to discover Z(f) for an arbitrary Boolean function and variables. By 'elementary' the author understands here a comparison for "equivalence" and Boolean addition. It is noted that the analysis, necessary in order to derive the Z(f) of Boolean functions of more than three variables, is practically impossible, even with the help of computers. Orig. art. has: numerous formulas.

ASSOCIATION: none

SUBMITTED: 14Nov63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: IE, MA

NO REF SOV: 003

OTHER: 004

Card 3/3

to a company of the c

KAZAKOV, V.E.

Increased pipe production at the Karl Libknekht Plant. Stal' 22 no.7:585-586 Jl '62. (MIRA 15:7)

1. Direktor Truboprokatnego zavoda imeni K. Libknekhta. (Nizhnedneprovsk—Pipe mills)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0

VATKIN, Ya.L., doktor tekhn. nauk; CHERNYAVEKIY, A.A., kand. tekhn. nauk; KAZAKOV, Y.E., inzh.; GLIKIN, M.P., inzh.; PERCHANIK, V.V., inzh.; KHANIN, M.I., inzh.; BIBA, V.I., inzh.

Reducing internal laps in tube rolling on Pilgrim mills. Stal: 24 no.1:63-67 Ja 764. (MIRA 17:2)

i. Dnepropetrovskly metallurgicheskly institut i zavod im. Libknekhta.

KAZAKOV, V.F.

Health resort facilities of the Cheleken Peninsula. Izv.AN Turk. SSR.Ser.biol.nauk no.4:3-9 '62. (MIRA 15:9)

1. TSentral'naya kompleksnaya tematicheskaya ekspeditsiya Upravleniye geologii i okhrany nedr pri Sovete Ministrov Turkmenskoy SSR. (CHELEKEN PENINSULA-HEALTH RESORTS, WATERING PLACES, E.TC.)

S/795/62/000/000/002/00%

AUTHOR: Kazakov, V. F.

TITLE: On certain laws governing high-speed envelopment grinding.

SOURCE: Vysokoproizvoditelinoye shlifovaniye. Ed. by Ye. N. Maslov. Kom. po.

tekh. mashinostr. In-t mashinoved. AN SSSR. Moscow, Izd-vo AN SSSR,

1962, 112-123.

TEXT: The paper contains a proposal by the author for high-speed grinding by means of the inner surface of a grinding wheel completely enveloped and held by a circular metal holder, and reports an experimental investigation of the newly proposed method. The purpose of the proposal and of the investigation is to overcome the problem currently engendered by centrifugal forces in the achievement of everincreasing grinding speeds. The author proposes a new method, which he terms "envelopment grinding," in which the centrifugal forces arising during the high-speed rotation of the grinding wheel serve to strengthen it, instead of weakening it. The grinding wheel is completely enveloped and held by a strong metallic holder and is attached to the face of the holder by a metallic retainer ring. The actual grinding function is performed by the inner surface of the grinding wheel with its own outer surface.

Card 1/3

On certain laws governing high-speed

5/795/62/000/000/002/007

The drive of the part may be central or centerless. The grinding disk may consist of a single ring or of partial segments. Envelopment grinding is especially suitable for short parts that can be cantilever-held on the machine, for example, for the grinding of the races of rolling-contact-type bearings. Grinding speeds of up to 115 m/sec can be performed safely with ordinary grinding disks, and up to 135 m/sec with high-strength grinding disks. The holders tested were made of Dural and were designed for a safety factor of 6 at a speed of 120 m/sec. Thus, the subject method permits cutting speeds that are 3.5-5 times as high as those currently achievable with ordinary disks and 2.5-3 times as high as those achievable with high-strengthhigh-speed disks. Other advantages are: (1) The actual contact between grinding disk and part is increased by 2-3.5 times, and (2) the additional gain in contact length (some 15%) obtained in in-cut grinding as against out-cut grinding, can be utilized to obtain the best possible results by in-cut grinding. The investigation was performed by means of a study of the furrows cut by an individual grinding grain (cross-section of special equipment shown). The investigation proved the superiority of high-speed grinding over grinding at lower speeds in which the individual groove profiles vary along their length. In most instances a direct comparison between the high-speed envelopment grinding and ordinary grinding at the max. achievable speeds is set forth. Maximum grinding rate of 460 mm³/min per mm of operative width of the grinding disk was achieved without any sacrifice in quality. This

Card 2/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

A CHARLES BELLEVIA TO THE REAL PROPERTY OF THE PROPERTY OF THE

On certain laws governing high-speed

S/795/62/000/000/002/007

maximum was conditioned by the capabilities of the machine and not by the cutting, method itself. The improvement of the cooling conditions in the new method and the fact that the local failure of the metal, which is ground off at high speeds, occurs with much smaller plastic deformation and, hence, a smaller rejection of heat, reduces the danger of the formation of hot spots on the surface subjected to grinding. As the grinding disk in an envelopment-type grinder wears down, its working diam increases and so does the grinding speed. Thus, the quality of grinding improves further; this constitutes a further advantage of the envelopment-type grinder. The theoretical and experimental data obtained here should justify, the prompt introduction of high-speed envelopment-type grinding into the production of rolling-contact bearings and wherever high-speed grinding by ordinary means has attained the limit of its potentialities. There are 7 figures and 7 Russian-language Soviet references.

Card 3/3

KAZAKOV, V.F.

Ooze of the Uzboy Valley and volcanic muds of the eastern Caspian coast. Izv. AN Turk. SSR. Ser. biol. nauk no.2:64-70 '64. (MIRA 17:6)

1. TSentral naya komplekanaya tematicheskaya ekspeditsiya Upravleniya geologii i okhrany nedr pri Turkmenskoy SSR.

KAZAKOV, V.F.; SEDLETSKIY, V.I.; SGKOLOVSKTY, L.G.

Underground waters of the Gaudak-Kugitang region. Izv. AN Turk. SSR.Ser. fiz.-tekh., khim. i geol.nauk no.6:87-93 163.

(MIRA 18:1)

l. TSentral'naya kompleksnaya tematicheskaya ekspeditsiya Upravleniya geologii i okhrany nedr pri Sovete Ministrov Turkmenskoy SSR.

ERVAYS, A.V.; YUDIN, N.F.; RYSTSOVA. V.S.; VOLODIN, Ye.I.; KAZAKOV, V.F.

Reactions to P.E.D'iachenko's article concerning the preparation of smooth surface samples. Stan.i instr. 24 no.11:17-19 N 153. (MLRA 6:12

1. Byuro vsaimosamenyayemosti moto-mekhanizirovannogo soyedineniya (for Ervays). 2. Vsesoyusnyy nauchno-issledovatel skiy institut meteorologii im. Mendeleyeva (for Yudin). 3. Leningradskiy isntitut ekonomicheskikh issledovaniy im. V.N.Molotova (for Rystsova). 4. KhGIMIL i KharNITOMASh (for Kazakov). (Surfaces (Technology))

KARAKOV, V.F.

Device for measuring the radius of rounded shapes. Stan.i instr. 24 no.11: (NLRA 6:12) 32 N *53. (Gauges)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"

KAZAKOV, V.F., kandidat tekhnicheskikh nauk.

Remarks on the State Standard for merchandise weight. Standartizatsiia no.4:68-69 Jl-Ag '54. (MLRA 8:2)

(Weight and measures—Standards)

KAZAKOV, V.F.

USSR/Engineering - Laps

Card 1/1

: Pub. 12 - 11/16

Authors

Kazakov, V. F.

Title

: Working of abrasive laps for lapping cylindrical surfaces

Periodical

: Avt. trakt. prom. 8, 30-31, Aug 1954

Abstract

The process of preparing and working abrasive and steel laps for lapping cylindrical surfaces is described. Specifications for laps and type of materials used are given, together with work methods.

Drawings.

Institution:

....

Submitted

. . . .

	ACCESSION NR: 1.74046054 8/0070/64/009/005/0758/0759
	AUTHORS: Buravikhin, V. A.; Kazakov, V. G.
54 54	TITLE: Effect of elastic stresses on the polarity of the boundaries of ferromagnetic films
	SOURCE: Kristallografiya, v. 9, no. 5, 1964, 758-759
	TOPIC TAGS: ferromagnetic film, domain structure, thin film, elustic stress, domain boundary
	ABSTRACT: Thin ferromagnetic films of composition 25% Fe and 75% Ni, obtained by thermal evaporation in a vacuum of ~10 ⁻⁵ mm Hg on organic substrates heated to 75C were tested under elastic tension produced by a special mechanism. The results show that application of a horizontal tension force to the film with the substrate, and further increase in the force leads to a phase of the substrate.
· ·	further increase in the force, leads to a change in the polarity of the domain boundaries. After a certain relatively low load, powder
	Gord 1/3

L 11266-65

ACCESSION NR: AP4046054

patterns show a certain intensification of a strongly pronounced domain boundary. Further increase in the load blurs the boundary somewhat, even if the applied magnetic field does not change in either magnitude or direction. A tension load equal to 180 grams reverses the polarity of the boundaries. The polarity of the interdomain boundaries has the same variation under load and without load. The conditions under which polarity reversal took place under various values of the field and for various tensions are reported briefly, as is the effect of the angle between the tension line and the easy magnetization axis. It is concluded that the accompanying change in the domain structure does not necessarily lead to a change in the prior polarity of the boundaries. Orig. art. has: 3 figures.

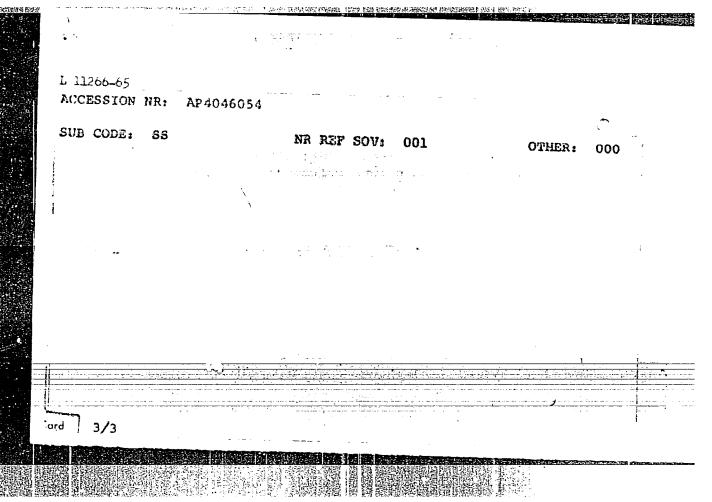
ASSOCIATION: Irkut*skiy gosudarstvenny*y pedagogicheskiy institut (Irkut*sk State Pedagogical Institute)

SUBMITTED: 13Apr64

ENCL: 00

Card 2/3

....



EWT(1)/EWT(m)/EWP(w)/EPR/T/EWP(t)/EEC(b)-2/EWP(b) Pad L 31322-65 IJP(c) s/0126/65/019/001/0045/0051 ACCESSION NR: AP5004264 HS/FB/93 AUTHOR: Buravikhin, V. A.; Kazakov, V. G. TITLE: The effect of elastic stress on the domain structure of thin ferromagnetic films SOURCE: Fizika metallov i metallovedeniye, v. 19, no. 1, 1965, 45-51 TOPIC TAGS: elastic stress, domain structure, ferromagnetic film, magnetic field. light magnetization, dynamometer, stretched film, Permalloy film, demagnetization, nickel alloy ABSTRACT: This article reports the results of an investigation into the effect of elastic stresses on the domain structure of thin ferromagnetic films of an alloy consisting of 25% iron and 75% nickel. It has been shown that the appearance of the powder figures, the initial magnetic structure and the direction of the film stretch are changed under the influence of elastic stresses. Some of the results obtained may be qualitatively explained by the fact that the areas of the film in which the limiting energy is at a minimum are redistributed under the influence of elastic stresses, and the direction of the slight magnetization axis turns Cord 1/2

L_31322**-**65

ACCESSION NR: AP5004264

toward the direction of the applied load. The eventual diminution of the load does not restore the domain structure to its initial appearance. The domain structure of a film in an unstretched state completely disappears in a field of 20 oersteds; in case of an elastic stress equalling 50 grams, the domain structure of such a film in a similar field remains unchanged. Orig. art. has: 5 figures.

ASSOCIATION: Irkutskiy pedagogicheskiy institut (Irkutsk pedagogical institute)

SUBMITTED: 11Feb64

ENCL: 00

SUB CODE: MM, EM

NO REF SOV: 002

OTHER: 008

Card 2/2

L 50972-65 EXT(1)/EPA(S.-2/EWI(W)/EMP(1)/EWP(L)/EWP(L)/EWP() Fatiment

ACCESSION NR: AP5011452

UR/0048/65/029/004/0655 ~658

AUTHOR: Buravikhin, V.A.; Kazakov, V.G.

TITLE: On the polarity of domain walls in ferromagnetic films /Report, Second All-Union Symposium on the Physics of Thin Perromagnetic Films held in Irkutsk 10-15 July 19647

SCURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 4, 1965, 655-658

TOPIC TAGS: ferromagnetic thin film, dorain structure, permalloy, magnetic property

AESTRACT: The work was concerned with the polarity behavior of the domain walls in ferromagnetic films of 25% Fe + 75% Ni; an alloy with positive magnetation of the domain walls in the films of 25% Fe + 75% Ni; an alloy with positive magnetative magnetative magnetative magnetative magnetative magnetative under the concentration of the films were deposited by vacuum evaporation of the ethyleneterephthalate substrates heated to 75°C. The films were deposited of fed the dimensions of the films were 30 x 5 x 0.01 ms. The streamed in tersion by clamping one end of the substrate and published the means of a micrometric screw through a load indicator. The film thicknesses were

Card 1/2

L 50972-65

ACCESSION NR: AP5011452

measured optically. The structure was observed by the powder pattern technique, using an MBI-6 microscope. Several series of domain photographs of stressed films in a field normal to the plane of the film are reproduced in the text. The various changes in wall polarity evinced under different conditions are described and like quased. Orig. art, has: 5 figures (series of domain photographs).

ASSOCIATION: Irkuskiy gesumlarstvonnyy pedagogicheskiy institut (Irkutsk State Pedagogical Institute)

SUBMITTED: 00

ENCL: 00

SUB CCOE: RM, EC

NR REF SOV: 000

OTHER: 000

Card 2/2

Pad/Ft=7/F1-1	In International Control of the Cont	UR/0048/65/029 004 0659 0632
AUTHOR: Bur	Buravikhin, V.A.; Kazakov, V.G.; Popov, V.I. Influence of elastic stress on the coercive force and hysteresis loops of etic films (Report, Second All-Union Symposium on the Physics etic Films haid in irkutsk lo-15 ally 1964. AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 4, 1965, 659-662 S: ferromagnetic thin film, hysteresis loop, permalloy, magnetic property The work was concerned with the offects of elastic stress or the etc., the anisotropy field H _k and the shape of the hysteresis of three Permalloys: 25% Fe + 75% N1 10% Fe + 90% N1 and 1% Fe + 63h films were prepared by vacuum (10-5 torr) evaporation of the initial onto polyethyleneterephthalate substrates heaten to 75%, mounted and one end and subjected to tension (with the substrate) by clamped at one end and subjected to tension (with the substrate) by	
	Apsolitisal Charles on the coercive force and hystoresis loops of clims (Report, Second All-Union Symposium on the Physics Films haid in irkutak lo-15 suly 1964. SR. Izvestiya. Seriya fizicheskaya, v. 29, no. 4, 1965, 659-662 erromagnetic thin film, hysteresis loop, permalloy, magnetic property work was concerned with the offects of elastic stress or the anisotropy field H _k and the shape of the hystoresis three Permalloys: 25% Fe + 75% Ni 10% Fe + 90% Ni and 10% Fe + 63% were prepared by vacuum (10-5 torr) evaporation of the initial polyethyleneterephthalate substrates heated to 75%, mountain the film dimensions were 40 x 5 x 0.01 mm. The films were suspended to tension (with the substrate) by	
SOURCE: AN	SSSR. Izvestiya. Seriya fi	sicheskaya, v. 29, no. 4, 1965, 659-662
TOPIC TAGS:	ferromagnetic thin film, h	ysteresis loop, permalloy, magnetic property
ABSTRACT: To cive force he thin films	The work was concerned with ic, the anisotropy field H _k of three Permalloys: 25% Fe	the effects of elastic stress or the same and the shape of the hysteresis could be 75% Ni 10% Fe + 90% Ni and 17% Fe + 63% (10-5 torr) evaporation of the 15176
material on 100 Oe field vertically,	to polyethyleneterephthalate d. The film dimensions were clamped at one end and subj	40 x 5 x 0.01 mm. The films were suspended ected to tension (with the substrate) by load indicator. The film thickness was
determined	optically; the value of H _k w	as evaluated by procedure described by
Cord 1/2		
•		.

L 50952-65

ACCESSION NR: AP5011453

B.M.Bradley and M.J.Prutton (J. Electr. & Control, 6, 81, 1959), and A.J.Kolk and J.T.Doherty (Datamation, 5, 8, 1959). The results are presented in the form of a series of oscillographic hysteresis loops and curves of $H_{\rm C}$ and $H_{\rm K}$ versus load, and are described – with little discussion – primarily with reference to the figures. The behavior of the different films under load differs, for the investigated films were characterized by different values of magnetostriction. Upon application of a load $H_{\rm K}$ increases, slowly for films with zero magnetostriction and racidly for films with negative magnetostriction. Under stress $H_{\rm C}$ decreases slightly and then lovely off for films with zero magnetostriction and increases gradually for forms are positive magnetostriction. The behavior also depends on the angle between the condition and the easy direction. Orig. art. has: 5 figures.

ASSOCIATION: Irkutskiy gosudarstvannyy pedagogicheskiy institut (Irkutsk State Pedagogicai Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: EM, EC

NR REF 80V: 002

OTHER: 002

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310007-0

L 50982-65	/EMP(1)/EMP(1)/EMP(t)/EMP(b) Pad/Pt-7
ACCESSION NR: AP5011454	UR/0048/65/029/004/0663/0667
AUTHOR: Kazakov, V. G.	7 / 1/4
TITLE: Variation of the domain st	tructure of ferromagnetic films under the
	port, Second All-Union Symposium on the Physics
SOURCE: AN SSSR. Izvestiya. Ser:	iya fizicheskaya, v. 29, no. 4, 1965, 663-667
TOPIC TAGS: ferromagnetic thin fi	domain structure, magnetic
	cycle of studies at Irkutsk State Pedagogical 011452 & 3), in the present work there were in-
vestigated the changes in domain	structure in 75% N1 + 25% Fe and 90% N1 + 10% Fe
positive magnetostriction; the 90	of stress. The 75% Ni films are characterized by % Ni films, by negative magnetostriction. As y thermal evaporation onto polyethyleneterephthal-
	ther with the plastic substrate in different dir-
octions relative to the easy axis	. The domain structure was observed by means of
Card 1/2	
The second secon	The state of the s

L 50982-65

ACCESSION MR: APSOLIASA

powder patterns. Four series of domain patterns are reproduced in the text. The results of the observations are described for the different films. Note is made of the change in appearance under load of domain walls with cross ties. The character of the changes in domain structure depends on the type of strain, the magnitude of the load, the direction of the tensile stress relative to the easy axis and the sign of the magnetostriction. In general, in films with positive magnetestriction incident to elongation the magnetization vectors in the domains tend to turn towards the line of elongation, while in films with negative magnetestriction the vectors tend to rotate to an angle of 90° to the elongation direction; that is, films with megative magnetostriction behave under tensile stress much as films with positive magnetostriction behave under compressive stress. Orig. art. has: 4 figures.

ASSOCIATION: Irkutskiy gosudarstvennyy pedagogicheskiy institut (Irkutsk State Pedagogic | Institute)

SUIMITTED:

SUB CODE: EM, 55

NR REV SCV: 004

OTHER: 001

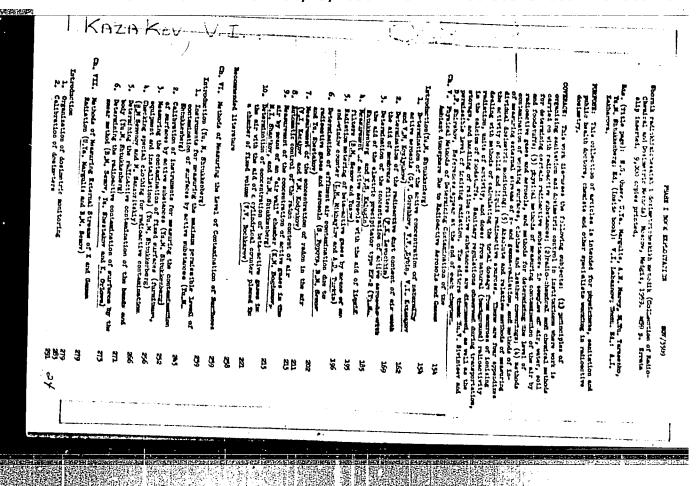
ACCESSION NR: AP5011455	UR/004B/65/029/004/0668/0672
AUTHOR: Buravikhin, V. A.; Kazakov, V.	G. 5 ∂ β
TITLE: Effect of clastic stress on mag processes in ferromagnetic films Repor Physics of Thin Ferromagnetic Films held	t, Second All-Union Symposium on the
SOURCE: AN SSSR. Izvestiya. Seriya fiz	icheskaya, v. 29, no. 4, 1964, 668-672
	ermalloy, hysteresis loop, domain structure
ABSTRACT: In continuation of the cycle	of studies at likutsk State Pedagogical
Institute (see ACCESSION NRJ. AP5011452	, 3 & 4), in the present work there were
investigated the variation: n domain s	10% Pe films) in the process of magnetiza-
different thickness (and some sup ni v	mier tensile stress (elongation) 75%
Ni allow is characterized by positive	agnetostriction (the 90% Ni alloy, by nega-
tive magnetostriction). The films were	prepared by vacuum evaporation onto
polyothylenterephthalate substrates and	stressed in tension at different angles to
the easy directica together with the su	betrate. The domain structure was observed
Cord 1/2	
140	terrents is estimated and the design of the control
••• · · · · · · · · · · · · · · · · · ·	

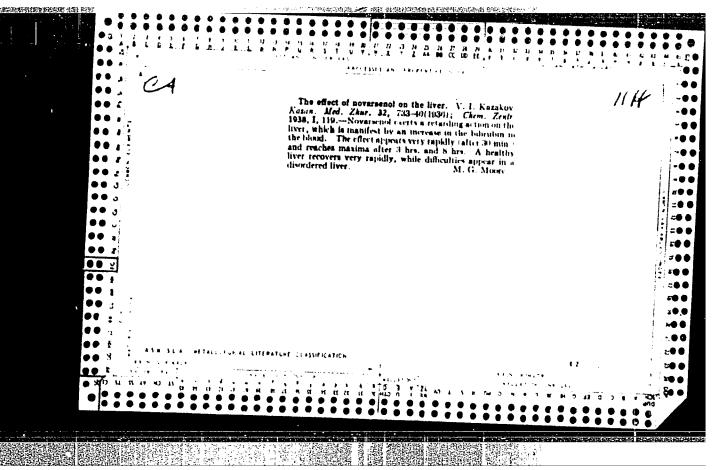
ACCESSION N	M: AP5011455				<i>i</i> :
reproduced.	The changes e e critical field t reversal) inc	nique. Seven serie vinced in the struc d required to initi reased with increas	ture are desc are changes i	ribed. In gener n the domain str	al, the
ASSOCIATION Pedagogical	: Irkutskiy go Institute)	sudarstvennyy pedag	ogicheskiy in	stitut (Irkutsk	State
UENITTKD:	00 (4)2753	ENGL:	00	SUB CODE:	EM, EC
rr ret bovi	₹	- OTHER	1 000	. 17.33, 167 <u>7, 15</u>	11
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P
			\$2, X \$2, \$2.	**************************************	16 L

KAZAKOV, V. I.

KAZAKOV, V. I.: "On the problem of calculating bridge foundations". Moscow, 1955. Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. (Dissertation for the Degree of Candidate of TECHNICAL SCIENCES)

SO: Knizhnaya Letopis' No. 51, 10 December 1955





KAZAKOV, V.I.

Dynamics of the effect of balneotherapy in dermatoses as an index of the mechanism of balneological factors. Vest.vener. No.3:22-24. May-June 50. (CLML 19:4)

1. Of the Department of Skin and Venereal Diseases, Chkalov Medical Institute (Head -Docent V.I.Kazakov)

KADARW, 7.1.

rentherna

Veneral Diseases

"Health report therapy of skim and veneral diseases." Reviewed by V.I. Sukharev, Vest. ven. i derm. no. 3, 1962.

Monthly List of Russian Accessions, Library of Congress, August 1952, Unclassified.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310007-0"